

## 4<sup>TH</sup> GRADE SCIENCE EXIT EXPECTATION BOXES

### **EARTH SCIENCE**

- **WEATHER**
  - *Relate that the water cycle consists of evaporation, condensation, precipitation, and the accumulation of surface and ground water*
- **CHANGES IN THE EARTH**
  - *Understand that smaller rocks come from the breaking or weathering of bedrock and larger rocks*
  - *Relate how erosion is the moving of rocks and soil*
  - *Know how features on the Earth's surface are constantly changing by a combination of slow and rapid processes*
- **EARTH'S STRUCTURE/COMPOSITION**
  - *Relate that properties of soil impact how people use land*
  - *Identify the three types of rocks*
  - *Know that geologists classify rocks using physical and chemical changes*

### **PHYSICAL SCIENCE**

- **MATTER**
  - *Investigate how the size, shape, mass, and material of an object determines whether it will sink or float in water*
  - *Explain that buoyancy is connected to sinking and floating*
  - *Identify that matter may be composed of parts too small to be seen without magnification*
  - *Identify matter in three forms and know it has the ability to change forms*
  - *Know matter is neither created nor destroyed, but can change form*
  - *Investigate how properties of matter change by heating and cooling*
- **FORCES/MOTION AND ENERGY**
  - *Observe that heat is a common byproduct when energy changes form*
  - *Describe how people's use of energy has changed over time*
  - *Explain that energy is the ability to do mechanical work or to produce a change in temperature*
  - *Identify the many different types of energy*
- **ELECTRICITY/MAGNETISM**
  - *Investigate magnetic attraction to steel and iron materials*
  - *Discover that electricity travels in circuits*
  - *Demonstrate the organization of a simple circuit*
  - *Discover that static electricity jumps from negative to positive charge*
  - *Illustrate ways electricity can be conserved*

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### **LIFE SCIENCE**

- ANIMALS
  - *Classification*
    - Explain that the terms carnivore, herbivore, and omnivore are used to describe animals that eat other animals, plants, or a combination of animals and plants
  - *Characteristics*
    - Explain that a predator is an animal that catches and eats other animals
- PLANTS
  - *Characteristics*
    - Identify that plants create their own food source
    - Identify that stems support the plant and transport water and nutrients
    - Explain the role of flowers in reproduction
  - *Life Cycles*
    - Explain that energy is transferred through food chains
- ENVIRONMENT
  - *Adaptations*
    - Explain that animal and plant adaptations are a result of interaction with the environment
  - *Interaction of Living Things*
    - Explain that plants, animals, and the physical surroundings are interdependent
    - Discover that plants and animals interact with one another and their surroundings to form an ecosystem
- CELLS, HEREDITY AND CLASSIFICATION
  - *Recognize different animals and plants within their kingdoms*
  - *Organize plants and animals using a classification system*